Title (en)

Efficient IP address configuration in mobile networks with multiple mobility anchor points (MAPs)

Title (de)

Effiziente Konfiguration von IP Adressen in mobilen Netzwerken mit mehreren Mobilitätsankerpunkten (MAPs)

Title (fr)

Configuration efficace d'adresses IP dans des réseaux mobiles avec plusieurs points d'ancrage de mobilité (MAPs)

Publication

EP 1841184 A1 20071003 (EN)

Application

EP 06006440 A 20060328

Priority

EP 06006440 A 20060328

Abstract (en)

The invention relates to a method for configuring a global network-layer address of a mobile node in a network with multiple network access entities. The MN attaches to the network and utilizes a link-local address for communicating with the network. The MN is connected to a router, which is connected to the multiple network access entities and includes a list, comprising prefix and performance information on each network access entity. To expedite the address configuration of the MN, the router is enabled to generate a global network-layer address configuration message for the MN without prior reception of a router solicitation message from the MN. Furthermore, said configured address is based on the most preferable network access entity in the network, by providing said updated list and selecting the best network access entity. Further, the invention relates to a router, network access entity and system implementing the respective methods.

IPC 8 full level

H04L 29/12 (2006.01); **H04L 29/06** (2006.01)

CPC (source: EP)

H04L 61/5007 (2022.05); **H04L 61/5038** (2022.05); **H04L 61/5046** (2022.05); **H04L 61/5053** (2022.05); **H04L 61/5084** (2022.05); **H04L 61/5092** (2022.05); **H04W 8/065** (2013.01); H04W 8/087 (2013.01)

Citation (search report)

- [A] WOOD DOCOMO USA LABS K NISHIDA NTT DOCOMO INC J: "Edge Mobility Protocol (EMP); draft-wood-netlmm-emp-base-00.txt", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, 17 October 2005 (2005-10-17), XP015043138, ISSN: 0000-0004
- [A] TALEB T ET AL: "A dynamic and efficient MAP selection scheme for mobile IPv6 networks", GLOBAL TELECOMMUNICATIONS CONFERENCE, 2005. GLOBECOM '05. IEEE ST. LOIUS, MO, USA 28 NOV.-2 DEC. 2005, PISCATAWAY, NJ, USA,IEEE, 28 November 2005 (2005-11-28), pages 2891 - 2895, XP010879250, ISBN: 0-7803-9414-3
- [A] LAGANIER DOCOMO EURO-LABS S NARAYANAN PANASONIC J: "Network-based Localized Mobility Management Interface between Mobile Node and Access Router; draft-laganier-netlmm-mn-ar-if-00.txt", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, 6 March 2006 (2006-03-06), XP015044323, ISSN: 0000-0004
- [A] GUNDAVELLI K LEUNG CISCO SYSTEMS S: "Localized Mobility Management using Proxy Mobile IPv6; draft-gundavelli-netlmm-mip6-proxy-00.txt", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, 8 November 2005 (2005-11-08), XP015042203, ISSN: 0000-0004
- [A] SOLIMAN FLARION C CASTELLUCCIA INRIA K EL MALKI ERICSSON L BELLIER INRIA H: "Hierarchical Mobile IPv6 Mobility Management (HMIPv6); rfc4140.txt", IETF STANDARD, INTERNET ENGINEERING TASK FORCE, IETF, CH, August 2005 (2005-08-01), XP015041862, ISSN: 0000-0003

Cited by

CN101919277A; EP2236002A4; US2021144591A1; US7724707B2; EP4037289A1; FR3119502A1; WO2009002700A1; WO2012151811A1; US8488557B2; WO2009089643A1; WO2009049985A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

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